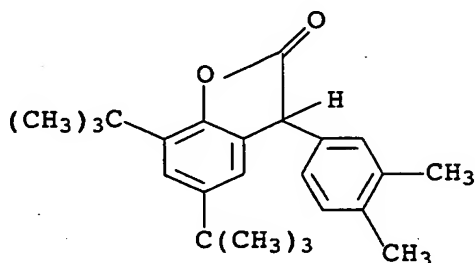


We claim:

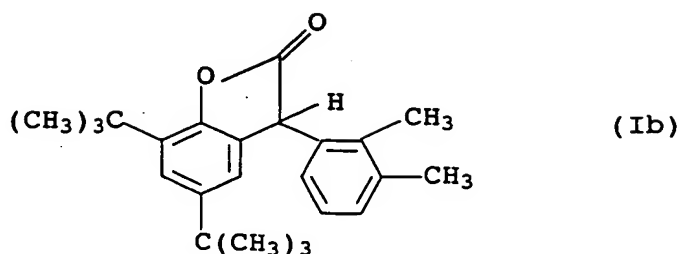
1. A thermoplastic molding composition comprising, where the total is 100% by weight,
 - a) at least one block copolymer A containing, in polymerized form, based on A,
 - a1) from 50 to 90% by weight of at least one styrene monomer, and
 - a2) from 10 to 50% by weight of at least one diene monomer,and, as stabilizers, based on the molding composition,
 - b) from 0.001 to 0.18% by weight of at least one benzofuranone derivative B,
 - c) from 0.05 to 1% by weight of at least one organic phosphite C, and
 - d) from 0.1 to 0.3% by weight of at least one stabilizer compound D selected from sterically hindered phenols and aromatic amines.
2. A molding composition as claimed in claim 1, where the block copolymer A is a styrene-butadiene block copolymer.
3. A molding composition as claimed in claim 1 or 2, where the block copolymer A has a star-shaped structure.
4. A molding composition as claimed in any of claims 1 to 3, where the benzofuranone derivative B is a compound of the formula Ia



(Ia)

or of the formula Ib

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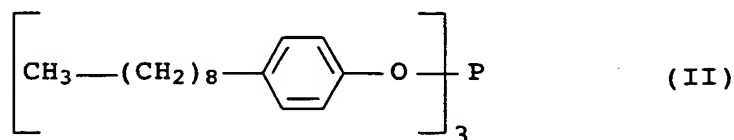


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or a mixture of these.

5. A molding composition as claimed in any of claims 1 to 4,
15 where the organic phosphite C is a compound of the formula

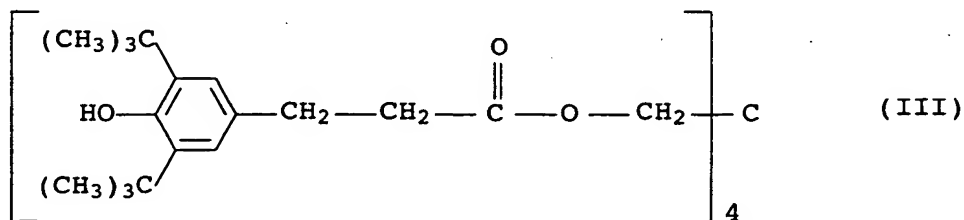
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6. A molding composition as claimed in any of claims 1 to 5,
25 where the stabilizer compound D is a sterically hindered phenol of the formula III

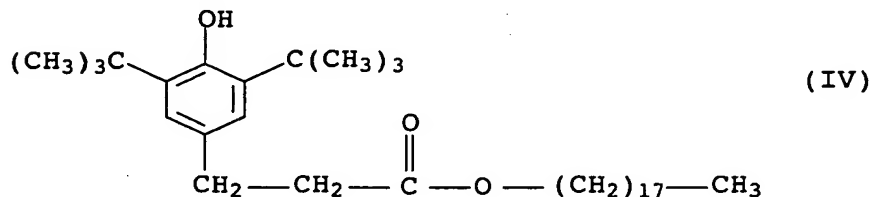
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or of the formula IV

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or a mixture of these.

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7. A molding composition as claimed in any of claims 1 to 6, where the ratio of the amount of stabilizer compound D to that of benzofuranone derivative B is from 3:1 to 1:1 parts by weight.

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8. A molding composition as claimed in any of claims 1 to 7, where the molding composition is neutral to slightly acidic.

9. A process for preparing the molding compositions as claimed in any of claims 1 to 8, where during the preparation the molding composition is rendered neutral to slightly acidic by adding CO₂ and water.

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10. The use of the molding composition as claimed in any of claims 1 to 8 for producing moldings, foils, films, fibers, or foams.

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11. A molding, a foil, a film, a fiber, or a foam made from the molding compositions as claimed in any of claims 1 to 8.

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Stabilized block copolymers made from styrene monomer and diene monomer

5 Abstract

The invention relates to thermoplastic molding compositions comprising

- 10 a) at least one block copolymer A containing, in polymerized form, based on A,
- 15 a1) from 50 to 90% by weight of at least one styrene monomer, and
- a2) from 10 to 50% by weight of at least one diene monomer,
- and, as stabilizers, based on the molding composition,
- 20 b) from 0.001 to 0.18% by weight of at least one benzofuranone derivative B,
- c) from 0.05 to 1% by weight of at least one organic phosphite C, and
- 25 d) from 0.1 to 0.3% by weight of at least one stabilizer compound D selected from sterically hindered phenols and aromatic amines.

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